# PATENT COOPERATION TREATY

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 23063PCT	FOR FURTHER AC	ΓΙΟΝ	See Form PCT/IPEA/416			
International application No.	International filing date	e (day/month/year)	Priority date (day/month/year)			
PCT/AU2004/001054	9 August 2004		8 August 2003			
International Patent Classification (IPC) or	national classification ar	nd IPC				
Int. Cl. 7 H03M 13/47; H04B 7/14	•		· .			
Applicant			•			
CLIPSAL INTEGRATED SYST	EMS PTY LTD et al					
	•					
This report is the international prelimina Authority under Article 35 and transmitt			rnational Preliminary Examining			
2. This REPORT consists of a total of 4	sheets, including this co	ver sheet.				
3. This report is also accompanied by ANN	NEXES, comprising:		·			
a. (sent to the applicant and to the	International Bureau) a	total of sheets, as f	ollows:			
sheets of the description, c sheets containing rectificat Administrative Instruction	tions authorized by this A		led and are the basis for this report and/or .16 and Section 607 of the			
sheets which supersede ear	rlier sheets, but which th		contain an amendment that goes beyond a 4 of Box No. I and the Supplemental			
	1 )		1			
b. (sent to the International Bureau a sequence listing and/or table re Relating to Sequence Listing (se	elated thereto, in comput	er readable form only	as indicated in the Supplemental Box			
4. This report contains indications relating	to the following items:		,			
X Box No. I Basis of the report	t	•				
Box No. II Priority						
Box No. III Non-establishmen	t of opinion with regard	to novelty, inventive s	tep and industrial applicability			
X Box No. IV Lack of unity of in	nvention	•				
Box No. VI Certain document	s cited					
Box No. VII Certain defects in	the international applica	tion				
Box No. VIII Certain observation	Box No. VIII Certain observations on the international application					
Date of submission of the demand	Г	Date of completion of t	he report			
8 June 2005		7 June 2005				
Name and mailing address of the IPEA/AU	A	uthorized Officer	·			
AUSTRALIAN PATENT OFFICE			•			
PO BOX 200, WODEN ACT 2606, AUSTRAL E-mail address: pct@ipaustralia.gov.au	IA E	BEN TUOHY				
Facsimile No. (02) 6285.3929	Γ	Telephone No. (02) 6283 7918				

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

						PCT/AU2004/001054				
Bo	x No.	I Basis of	the repor	t .		•				
1.		h regard to the la erwise indicated t		is report is based on the international appl tem.	ication in the lang	uage in which it was filed, unless				
						lage ,				
		internation	pages as originally filed/furnished  pages* received by this Authority on with the letter of  pages* received by this Authority on with the letter of  laims:  pages as originally filed/furnished  pages* as amended (together with any statement) under Article 19							
	publication of the international application (under Rule 12.4)									
	international preliminary examination (under Rules 55.2 and/or 55.3)									
2.	furn	ished to the recei	iving Office	e in response to an invitation under Article	based on (replace : 14 are referred to	ment sheets which have been o in this report as "originally				
	X			•						
		the description:		·						
			pages	as originally filed/furnished	•					
		the claims:	pages*	received by this Authority on with the	e letter of .					
			pages	as originally filed/furnished						
					•	9				
			pages*	received by this Authority on with the		•				
		the drawings:	pages*	received by this Authority on with the	e letter of					
		ine diawings.	nages	as originally filed/furnished						
	•		pages pages*	received by this Authority on with the	letter of					
			pages*	received by this Authority on with the						
	П	a sequence listin	ig and/or ai	ny related table(s) - see Supplemental Box	Relating to Seque	ence Listing.				
3.	$\overline{\sqcap}$	The amendment	s have resu	lted in the cancellation of:						
		the desc	cription, pa	ges		•				
		<u></u>	ms, Nos.	•						
			wings, shee	ts/fios						
	•	<u></u>	•	g (specify):						
	•	=	•	I to the sequence listing (specify):						
A		<u> </u>	-		wad to this renort	ond listed halow had not been				
	4. This report has been established as if (some of) the amendments annexed to this report and listed below had not be made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box 70.2(c)).									
		the desc	cription, pa	ges .						
		the clair	ms, Nos.	. ,						
		the drav	vings, shee	ts/figs						
		the sequ	ience listin	g (specify):	•	•				
		any tabl	le(s) related	to the sequence listing (specify):						
	<i>rc</i> :-									

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/A	. <b>U2004</b> .	/001054
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Box	x No. 1	ľV	Lack of unity of invention
1.		In re	sponse to the invitation to restrict or pay additional fees the applicant has:
			restricted the claims.
			paid additional fees.
			paid additional fees under protest.
			neither restricted nor paid additional fees.
2.	X		Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, invite the applicant to restrict or pay additional fees.
3.	This A	Autho	rity considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:
		comp	olied with.
·	X	not c	omplied with for the following reasons:
		relate	international application does not comply with the requirements of unity of invention because it does not e to one invention or to a group of inventions so linked as to form a single general inventive concept. In ing to this conclusion the International Searching Authority has found that there are two inventions:
			Claims $1-41$ , $43-46$ , $48-50$ and $52-60$ are directed to a radio communications system including data frames coded so as to be perceived by the device receiving the data frame, as a collision when the device is already receiving data from another source. It is considered that the detection of a collision comprises a first "special technical feature".
			Claims 42, 47 and 51 are directed to a radio communications system including at least two transceivers and a repeater located intermediate the transceivers such that upon receipt of a data transmission from a first transceiver, the repeater re-transmits the data transmission from the first transceiver. It is considered that a repeater located intermediate the transceivers such that upon receipt of a data transmission from a first transceiver, the repeater re-transmits the data transmission from the first transceiver comprises a second "special technical feature".
		"tech	e the above mentioned groups of claims do not share either of the technical features identified, a mical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the national application does not relate to one invention or to a single inventive concept.
		•	
<b>4.</b>	Conse	equent	ly, this report has been established in respect of the following parts of the international application:
		X	all parts.
			the parts relating to claims Nos.

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/AU2004/001054

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	s and explanations supporting such statement

1.	Statement		
	Novelty (N)	Claims 1 - 60	YES
		Claims None	NO
	Inventive step (IS)	Claims 1 - 60	YES
	•	Claims None	NOF
	Industrial applicability (IA)	Claims $1-60$	YES
		Claims None	NO $\frac{n}{n}$

2. Citations and explanations (Rule 70.7)

### Documents cited for the purpose of compiling this report:

(D1) JP 2001-231078 A (NIPPON TELEGRAPH & TELEPHONE CORP.) 24 August 2001, see whole document (English translation sourced from JP web site: <a href="http://www19.ipdl.jpo.go.jp/PA1/cgi-bin/PA1INIT?">http://www19.ipdl.jpo.go.jp/PA1/cgi-bin/PA1INIT?</a>); and

(D2) US 5040175 A

(D3) WO 2004/034310 A2

### NOVELTY (N) and INVENTIVE STEP (IS) claims 1 - 60

Claims 1-41, 43-46, 48-50 and 52-60 are novel and inventive in light of the cited prior art documents D1-D3 that do not, either alone or in obvious combination, disclose all of the features defined in the claims. In particular none of the documents either disclose or obviously suggest to a person skilled in the art the defined feature of a data frame used in a radio frequency communications network including data that is coded so as to be perceived by a device receiving the data frame, as a collision when the device is already receiving data from another source or the use of a fourth time slot for transmitting a collision indication.

Claims 42, 47 and 51 are novel and inventive in light of the cited prior art documents D1 – D3 that do not, either alone or obvious combination, disclose all of the features defined in the claims. In particular none of the documents either disclose or obviously suggest to a person skilled in the art the defined feature of a radio communications system including a repeater that upon receiving data from one of either a first or second transceiver, in a first time slot, transmits a repeater flag in a second time slot, and then in a third time slot transmits the data received in the first time slot.

### INTERNATIONAL SEARCH REPORT

International application No.

### PCT/AU2004/001054

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Pate	ent Family Mem	ber	•	<u> </u>
wo	2004034310	US	2004130438			<u> </u>		 
JР	2001231078				. •			•
US	5040175	EP	0452124	JР	5316113	•		

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX